

Unit 3.3 – Cramer’s Rule

Name: _____

Standards: SE 2.4 & SE.3

I Can...

- Find the determinant of square matrices (2x2 & 3x3)
- Explain the solution of a determinant
- Use determinants to find the area of triangles
- Use determinants to find the solutions of systems of equations (Cramer’s Rule)

Items in bold should be turned in to me or put in your binder.

_____ **video notes**

_____ **book assignment**

_____ **determinant of a 3x3 exercise (khan academy)**

_____ Cramer’s Rule ws

_____ extra video

_____ Pre-MC

_____ **mastery check**

PRE-MC:

Find the determinant of the matrices below.

1. $\begin{bmatrix} 3 & 7 \\ -2 & 18 \end{bmatrix}$

2. $\begin{bmatrix} -2 & 3 & 1 \\ -3 & 0 & -3 \\ 0 & -5 & -4 \end{bmatrix}$

Algebra 2

Use Cramer's rule to solve the system of equations.

3. $-6x + y = 18$
 $-4x - 6y = -28$

4. $6x + 2y + 3z = -26$
 $3x - 3y + 6z = -15$
 $y - 5z = 16$

5. List all the ways you have learned how to solve a system of equations.